CLAIM OR CLAIMS

1. A method for preparing a thin supported film on a metal substrate having two surfaces, the method comprising:

- a. masking off a first surface of the metal substrate with a maskant, leaving a second surface of the metal substrate unmasked;
 - b. placing the metal substrate under a vacuum;
- c. treating the second unmasked surface of the metal substrate by plasma etching;
- d. coating the treated second surface of the metal substrate with a film while still under vacuum;
- e. removing the metal substrate from the vacuum;
 - f. removing the maskant;
- g. treating the previously masked second surface of the metal substrate with photo resist;
- h. exposing the treated second surface of the metal substrate with photo resist to artwork of a desired pattern;
- i./ exposing the metal substrate to a suitable solution;
- metal substrate by chemically etching in areas selectively exposed by the artwork;
 - k. neutralizing the metal substrate; and
- / l. removing the at least one etched part of the metal substrate.
- 2. The method of Claim 1, wherein the metal substrate is stainless steel.
- 3. The method of Claim 1, wherein the metal substrate is brass copper.
- 4. The method of Claim 1, wherein the metal substrate is silicon.

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- 5. The method of Claim 1, wherein the maskant is tape.
- 1 The method of Claim AI, wherein the maskant is liquid film.
- 7. The method of Claim 1, wherein the maskant is resist.
- 8. The method of Claim 1, wherein the maskant is wax.
- 9. The method of Claim 1, wherein the thin supported film is produced by plasma arc deposition.
- 10. The method of Claim 1, wherein the thin supported film is produced by vapor deposition.
- 11. The method of Claim 1, wherein the thin supported film is parylene.
- 12. A thin supported film on a metal substrate having two surfaces created by a method comprising:
 - a. masking off a first surface of the metal substrate with a maskant, leaving a second surface of the metal substrate unmasked;
 - b. placing the metal substrate under a vacuum;
 - c. treating the second unmasked surface of the metal substrate by plasma etching;
 - d. coating the treated second surface of the metal substrate with a film while still under vacuum;
 - e. removing the metal substrate from vacuum;
 - f. removing the maskant;
 - g. treating the previously masked second surface of the metal substrate with photo resist;
 - h. exposing the second surface of the metal substrate treated with photo resist to artwork of a desired pattern;
 - i. exposing the metal substrate to a suitable solution;
 - j creating at least one etched part of the metal substrate by chemically etching in areas

NO.

selectively exposed by the artwork;

- k. neutralizing the metal substrate; and
- 1. removing the etched parts from the metal substrate.
- 13. The thin supported film on the metal substrate of Claim 12, wherein the metal substrate is stainless steel.
- 54. The thin supported film on the metal substrate of
- Claim 12, wherein the metal substrate is brass copper.
- 15. The thin supported film on the metal substrate of Claim 12, wherein the metal substrate is silicon.
- 16. The thin supported film on the substrate of Claim 12, wherein the maskant is tape.
- 17. The thin supported film on the substrate of Claim 12, wherein the maskant is liquid film.
- 18. The thin supported film on the substrate of Claim 12, wherein the maskant is resist.
- 19. The thin supported film on the substrate of Claim -12, wherein the maskant is wax.
- 20. The thin supported film on the substrate of Claim 12, wherein the thin supported film is produced by vapor deposition.
- 21. The thin supported film on the substrate of Claim 12, wherein the thin supported film is produced by plasma arc deposition.
- 22. The thin supported film on the substrate of Claim 12, wherein the thin supported film is parylene.